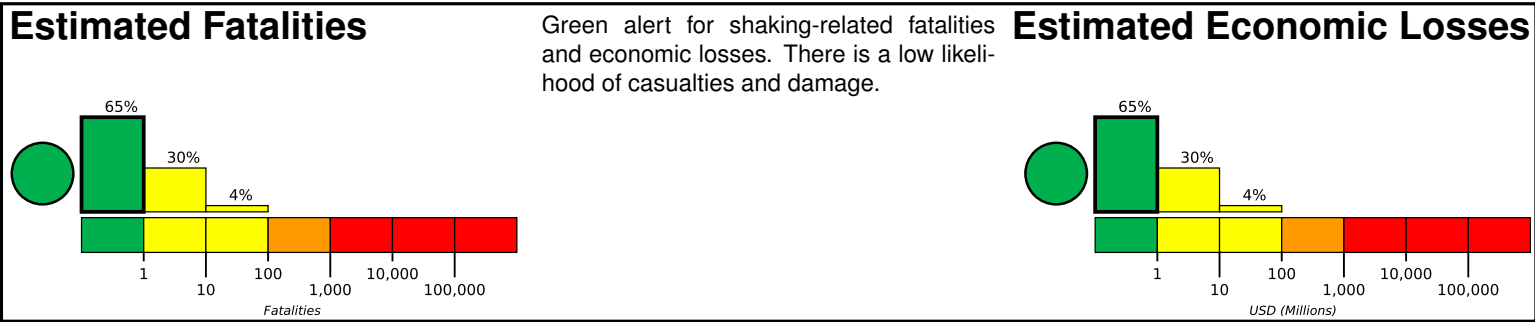


M 4.2, 3 km S of Lima, Montana  
Origin Time: 2023-07-14 22:26:08 UTC (Fri 16:26:08 local)  
Location: 44.6097° N 112.5975° W Depth: 11.6 km

PAGER Version 7

Created: 3 days, 0 hours after earthquake

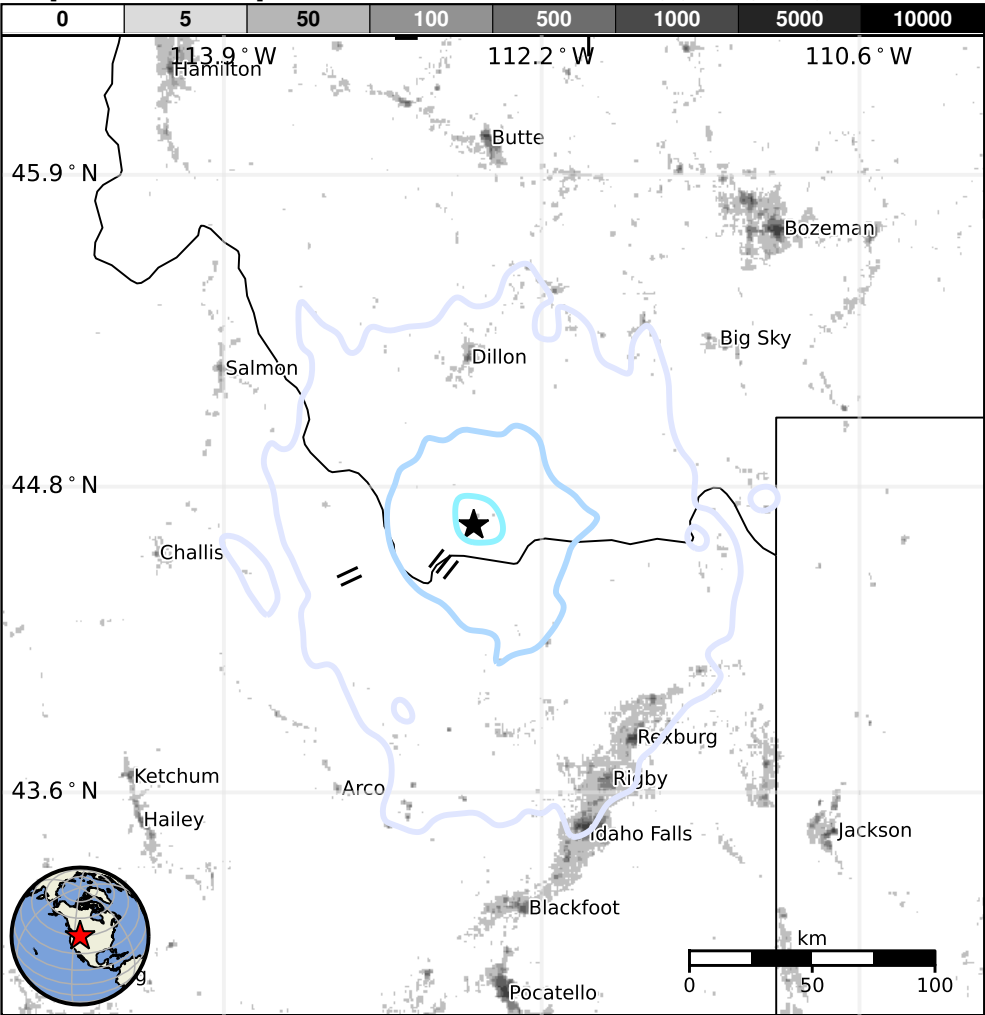


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		472k	194k	0	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

\*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1984-08-22	107	5.5	V(3k)	—
1994-02-03	242	5.8	VIII(1k)	—
1983-10-28	112	6.9	VII(2k)	2

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
II	Dubois	1k
II	Dillon	4k
II	Saint Anthony	4k
II	Sugar City	2k
II	Rexburg	25k
II	Rigby	4k
I	Idaho Falls	57k
I	Butte	34k
I	Butte-Silver Bow (Balance)	34k
I	Pocatello	54k
I	Bozeman	37k